



Dual Technology Imaging

Day Night System



Introduction

8H-Series thermal imaging system cameras are designed for important video surveillance applications such as Police, Rescue, Fire, Marine, Border Patrol, etc. It consists of: thermal imager, high resolution zoom module, precise PTZ systems. It ensures clear view of details under total dark or foggy environments.

- ❖ Built-in 384*288 full time high sensitive thermal imager, provide clear view under total darkness;
- ❖ Integrated HAD 28X zoom module, 550TVL, 0.0015Lux;
- ❖ Precise PTZ systems with high precision and higher holding torque. PTZ positioning precision up to $\pm 0.05^\circ$;
- ❖ Aluminum PTZ case with high strength, special Fabrication Processing, full weather proof;
- ❖ Fully sealed design, IP index up to IP67, Built-in surge and lightning strike protection device;
- ❖ Built-in integrated defogging device, working temp range $-45^\circ\text{C} \sim 55^\circ\text{C}$;
- ❖ 3 video outputs: thermal video, zoom module video and complex video;
- ❖ Detect protocol & Baud rate automatically, soft address supported, convenient for use;



Applications



POLICE/GOVERNMENT

MARINE/SHIPS

ARMY/BORDER PATROL

LOGISTICS

FIRE ALARM/RESCUE

Technical Data

Model	8H-G51928	8H-G52528	8H-G54028
Thermal Imaging Camera			
Sensor Type	Un-Cooled aSi		aSiIR microbolometer (No TEC)
Resolutions	384X288		
Sensor Size	25 μm ×25 μm		
Focal	19mm	25mm	40mm
Focus	Fixed		Electronic
IRIS	1.0		
FOV	28.6°×21.5°	21.7°×16.4°	13.7°×10.3°
Detecting Range	1750m (Vehicle) 900m (Man)	2300m (Vehicle) 1200m (Man)	3600m (Vehicle) 1900m (Man)
Recognition Range	582m (Vehicle) 292m (Man)	750m (Vehicle) 400m (Man)	1200m (Vehicle) 640m (Man)
Digital Zoom	1X, 2X, 4X		
Video Display	White / Black		
Display Mode	Image Enhanced, Image Flip		
Alarm Display	Cursor Display on Over-radiation of IR		

Daylight Imaging Camera			
Video Sensor	1/4" SONY EXView HAD CCD		
Effective Pixel	PAL:752(H)×582(V) NTSC:768(H)×494(V)		
Resolution	550 TVL		
Video System	PAL/NTSC		
Optical Zoom	36X	28X	18X
Digital Zoom	12X		
Lens	F=3.4-122.4mm F1.6-4.5	F=3.5-98mm F1.35-3.7	F=4.1-73.8mm F1.4-3.0
View Angle	57.8°-1.7°	55.8°-2.1°	48°-2.8°
Min Illumination	Color: 1/60s: 1.4lux 1/4s: 0.1lux Mono: 0.01lux	Color: 1/60s: 0.25lux 1/4s: 0.16lux Mono: 0.0015lux	Color: 1/60s: 1.4lux 1/4s: 0.1lux Mono: 0.01lux
WDR	Yes	Yes	No
WB	Auto/Manual		
FOCUS	Auto/Manual		
IRIS	Auto/Manual		
S/N Ratio	Not less than 50 dB		
BLC	On/Off		
Image Stabilization	On/Off		
DNR	1-5 Steps / Off		
Day / Night	Auto / Manual		

PTZ	
Pan Range	360° Continuous
Pan Speed	Control speed: 0.04° -100°/s; Preset speed: 100°/s
Tilt Range	-15°~90°(Auto Mirror)
Video System	PAL/NTSC
Tilt Speed	Control speed: 0.3° ~60°/s, adjustable; Preset speed:60°/s
Preset	256
Preset Precision	$\pm 0.05^\circ$
PTZ stability	Two Degrees of Freedom gyroscope PTZ stability control system (Optional)

General	
Video Output	1 Channel Thermal Imaging Video; 1 Channel Zoom Module Video; 1 Channel Complex Video;
Power	25W/50W(Heater On)
Working Temp.	-45°C~55°C
IP Index	IP67
Anti-Vibration	Pan 9g, Tilt 15g
Wind Resistance	180 km/h
Dimension	$\Phi 190 \times 300$ (mm) with vacuum pad mount $\Phi 190 \times 275$ (mm) w/o vacuum pad mount
Weight	7 KGS